Public Works (1896) Department.

G.O., No. 2189/96

DATED 29 July 96

[Despatch Abstract.]

Ratchist Classd – Permanent
Way materials for 1895 –
Circular from the Director
General of Rys forwarding the –
Communicated to officers of the
P.W.D.

[P. W.—25.
1,000—5-8-96.]

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

5676

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma and Assam, Public Works Department.
The Secretaries to the Residents at Hyderabad and in Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana and Central India, and Baluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Director General of Military Works.
The Chief Engineer, Kashmir.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow, and Assam.

Copy forwarded to the Local Governments and Administrations, and to the officers noted in the margin, for information, with the intimation that all Railway Administrations have been supplied with copies direct.

605 C

Encls: 1 (60 pp.)

Accn: 23.6.96

Colonel, R.E.,
Director General of Railways.

To

THE Secretary to the Govt of Madras
Public Works Dept.

Space given will follow

No. 2189 W. dated 29 July 96
Communicated to
Offg Chief P. W. Dept

25/6/96

DESPATCHED
3 AUG 96

Ch. E. for S.
Superintendent
C.A. & Cor.

G. C. Press, Simla.—No. 1557 P. W. D.—12-6-96.—48.

Chandra

INDEXED

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[*General Distribution.*]

Circular No. 7.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGER, NORTH WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE MANAGER, EASTERN BENGAL STATE RAILWAY.
THE MANAGER, EAST COAST RAILWAY.
THE ENGINEER-IN-CHIEF, MUSHKAF-BOLAN STATE RAILWAY,
THE ENGINEER-IN-CHIEF, KOTRI-ROHRI RAILWAY.
THE ENGINEER-IN-CHIEF, MARI-ATTOCK RAILWAY AND GRADIENT IMPROVEMENT WORKS, NORTH WESTERN RAILWAY.
THE ENGINEER-IN-CHIEF, BEZWADA-MADRAS RAILWAY.
THE ENGINEER-IN-CHIEF, RAE BARELI-BENARES EXTENSION RAILWAY.
THE ENGINEER-IN-CHIEF, ASSAM-BURMA CONNECTION RAILWAY SURVEY.
THE ENGINEER-IN-CHIEF, GHAZIABAD-MORADABAD RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List, Class D.—Permanent-way materials for 1895.

Simla, the 8th June 1896.

Sir,

I HAVE the honour to forward herewith, for information and guidance, a printed statement showing rates, *free on board* in England, for class D State railway stores, permanent-way materials, contracted for by the India Office in 1895.

2. The statement has been divided into two parts, the first part (pages 1 to 15) affords information regarding materials for 5′ 6″ gauge railways, and the second part (pages 16 to 20) furnishes similar information for metre and other narrow gauge railways.

3. A table showing average sea-freight per ton for permanent-way materials landed in India during 1894 at the various ports is prefixed for information, figures for 1895 not being available.

4. Statements showing the cost and carriage of different descriptions of permanent-way materials for one mile of track (single line) are attached as appendices A and B.

5. In order to arrive at the total cost of class D stores landed in India, an insurance charge of one-half* per cent. on the *free on board* cost *plus* entire sea-freight, should be added in addition to other incidental charges and exchange, which latter should be calculated at the official rate for the year.

I have the honour to be,

SIR,

Your most obedient Servant,

T. GRACEY, Colonel, R.E.,
Director General of Railways.

Documents accompanying.

1. Table of average sea-freight for permanent-way materials.

2. Rate List, Class D, permanent-way materials for 1895.

3. Appendices A and B showing cost and carriage of different descriptions of permanent-way materials for one mile of track (single line).

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* For State Railway Stores and Irrigation Works only classed as Imperial. Stores for Provincial and Local Funds and for railways constructed by Native States are charged one per cent. as heretofore.

5676

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma and Assam, Public Works Department.
The Secretaries to the Residents at Hyderabad and in Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana and Central India, and Baluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Director General of Military Works.
The Chief Engineer, Kashmir.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow, and Assam.

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605C

Encls: (60)

Accs: 23.6.96

Colonel, R.E.,
Director General of Railways.

To

THE Secretary to the Govt of Madras
Public Works Deptt.

Your opinion will follow

No. 2189W. dated 29 July 96
Communicated to
Offices Chief P. W. Dept

25/6/96

Ch. E. for I.
Supdg Engr
C.A. & Cont.

DESPATCHED
3 AUG 96

G. C. Press, Simla.—No. 1557 P. W. D.—12-6-96.—48.

Chandra

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Enclosure to Director General of Railways' Circular No. 7 of 1896.

RATE LIST.

CLASS D.

PERMANENT-WAY MATERIALS.

FOR 1895.

G. C. Press, Simla.—No. 1557 P. W. D.—12-6-96.—48

Enclosure to Director General of Railway's Circular No. 7 of 1896.

Table of average Sea-freight for Permanent-way Materials landed during 1894.

Details.	Average rate per ton.										Remarks.
	Karachi.		Bombay.		Coconada or Vizagapatam.		Calcutta.		Rangoon.		
	s.	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	*s.*	*d.*	
Bolts, fish	9	3	17	3	...		16	3	22	6	Where rates have not been quoted, it should be understood that material was not imported during the year.
Crossings	12	6	9	6	...		13	5	...		
Plates, bearing	...		10	0	...		17	6	...		
Plates, fish	10	4	10	9	...		12	4	10	0	
Rails	10	6	9	4	14	5	12	1	15	5	
Sleepers	9	7	9	1	...		10	0	...		
Spikes, dog	11	9	11	0	...		16	3	18	4	
Switches or points	12	6	9	6	...		13	5	22	6	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.

5′ 6″ GAUGE.

Contracted for in 1895.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
44/56	5-3-95		Steel, with special nuts for rails, steel, flat-footed.	100	13 12 6	Ton.	Mushkaf-Bolan ...	Weight—31½ ozs.
52/188	15-11-95		Steel with special nuts for rails, flat-footed ...	100	14 12 6	„	Do. ...	Weight—1 lb. 15½ oz.
42/127	14-1-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	13 12 6	„	Oudh and Rohilkhand	Weight—30 oz.
		Bolts, fish ...						
44/194	19-3-95		Steel, with special nuts for new standard flat-footed rails with 4· 2″ foot.	75	13 7 6	„	East Coast ...	Weight—30·3 oz.
46/86	7-5-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	13 12 6	„	Oudh and Rohilkhand	Weight—30·33 oz.
46/231	16-5-95		Steel, with special nuts for new standard flat-footed rails with 4· 2″ foot.	75	13 12 6	„	East Coast ...	Weight—30·33 oz.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1895.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
46/231	16-5-95	Bolts, fish—*contd.*...	Steel, with special nuts for new standard flat-footed rails with 4· 2″ foot.	75	13 12 6	Ton.	East Coast ...	Weight—30·33 oz.
48/186	11-7-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	13 17 6	,,	North-Western, Kotri-Rohri, and Mari-Attock.	Weight—30·65 oz.
49/162	14-8-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 2 6	,,	North-Western ...	Weight—30·65 oz.
49/166	14-8-95		Steel, with special nuts for new standard rails with 4· 2″ foot.	75	14 2 6	,,	East Coast ...	Weight—30·65 oz.
52/3	1-11-95		Steel, with special nuts for new standard rails with 4· 2″ foot.	75	14 12 6	,,	Bezwada-Madras ...	Weight—30·65 oz.
52/3	1-11-95		Steel, with special nuts for new standard rails with 4″ foot.	75	14 12 6	,,	Mari-Attock ...	Weight—30·65 oz.
53/97	10-12-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 12 6	,,	North-Western and Oudh and Rohilkhand	Weight—30·65 oz.
53/97	10-12-95		Steel 1″ with nuts for old standard flat-footed rails.	75	14 12 6	,,	North-Western.	Weight—30·5 oz.
53/98	10-12-95		Steel, with special nuts for new standard flat-footed rails with 4″ foot.	75	14 12 6	,,	Do.	Weight—30·65 oz.
46/359	24-5-95.	Chairs ...	Cast-iron (single) for new standard 73 lbs. bull headed rails.	73	3 0 6	Ton.	North-Western.	Weight of one chair is 45¼ lb.
44/226	21-3-95 ...	Crossings ...	Steel, built up, complete, for rails steel flat-footed 100 lbs. per yard—					
			Angle 1 in 12	100	9 2 6	Set	Mushkaf-Bolan.	
			1 in 10					
			1 in 8½		8 10 0	,,		
			1 in 7					
52/389	29-11-95...		Angle 1 in 12	100	9 12 0	,,	Ditto.	
			1 in 8½		8 19 0	,,		
49/253	22-8-95 ...		Steel, built up, for new standard rails flat-footed with 4·2″ foot—					
			Angle 1 in 12	75	6 8 0	,,	East Coast.	
			1 in 8½	75	5 13 0	,,		
			1 in 6	75	5 19 0	,,		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ Gauge.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
52/100 7-11-95 ...	Crossings—*contd* ...	Steel, built up, for new standard steel flat-footed rails with 4·2″ foot—					
		Angle 1 in 12 ...	75	6 18 6	Set	Bezwada-Madras.	
		1 in 8½ ...	75	6 2 6	Set	Bezwada-Madras.	
44/42 4-3-95 ...		Steel, built up, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½ ...	75	5 17 9	,,	North-Western.	
		1 in 12 ...	75	6 10 0	,,	North-Western.	
45/168 13-4-95 ...		Steel, built up, complete, for old standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½ ...	75	6 0 0	,,	Mushkaf-Bolan.	
		1 in 10 ...	75	6 12 6	,,	Mushkaf-Bolan.	
		1 in 12 ...	75	6 12 6	,,	Mushkaf-Bolan.	
48/137 6-7-95		Steel, built up, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 8½ ...	75	5 2 0	Set	Kotri-Rohri, and Mari-Attock.	Chairs to be straight instead of bent.
		Angle 1 in 12 ...	75	5 17 6	,,	Kotri-Rohri, and Mari-Attock.	Chairs to be straight instead of bent.
48/138 6-7-95		Steel, built up, with chairs and bolts and nuts, complete, for new standard flat-footed rails with 4″ foot—					
		Angle 1 in 12 ...	75	5 15 6	,,	Oudh and Rohilkhand.	
48/453 25-7-95		Steel, built up, complete, to suit new standard flat-footed steel rails with 4″ foot and with forged steel crossing chairs*—					* Chairs to be straight instead of bent.
		Angle 1 in 8½ ...	75	5 7 6	,,	Bhopal-Ujjain.	
49/198 16-8-95.		Steel, built up, new standard, North-Western Railway flat-footed rails with 4″ foot—					
		Angle 1 in 8½ ...	75	5 5 6	,,	North-Western.	
		Angle 1 in 12 ...	75	5 18 6	,,	North-Western.	
		Do. old standard with 4″ foot—					
		Angle 1 in 8½ ...	75	5 16 0	,,	North-Western.	
52/99 7-11-95		Steel, built up, for double-headed steel rails—					
		Angle 1 in 7½ ...	75	6 2 6	,,	Eastern Bengal.	
52/389 29-11-95		Steel, built up, complete for rails, double-headed (old, Sind-Peshin State railway pattern).	75	6 5 0	,,	Mushkaf-Bolan.	
52/245 20-11-95.		Steel, built up, complete, for new standard rails with 4″ foot—					
		Angle 1 in 12 ...	75	7 3 0	,,	Mari-Attock.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.—*contd.*

5′ 6″ Gauge.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
53/75 7-12-95.	Crossings—*concld*	Steel, built up, complete, for new standard, North-Western Railway flat-footed rails—					
		Angle 1 in 8½ ...	75	5 16 6	Set	North-Western.	Crossing chairs straight not bent.
		„ 1 in 12		6 10 6	„		
		„ 1 in 10					
53/183 19-12-95	Plates, bearing ...	Wrought-iron, with four spike holes for new standard flat-footed rails with 4″ foot, 7½″ × 7″	75	8 0 0	Ton	North-Western ...	Weight of one plate 7½ lbs.
44/124 12-3-95	Plates, fish ...	Steel, four-holed 1′ 10″ long for steel flat-footed rails.	100	4 13 9	Ton.	Mushkaf-Bolan ...	Weight of one pair of fish-plates is 50·63 lbs.
53/101 10-12-95		Ditto ditto ditto	100	5 12 0	„	Ditto ...	
42/147 16-1-95		Steel, four-holed, for new standard flat-footed rails with 4″ foot.	75	4 17 6	„	Oudh and Rohilkhand.	One pair of fish-plates = 32 lbs.
44/124 16-3-95		Steel, five-holed 1′ 7½″ long for new standard flat-footed rails with 4·2″ foot.	75	4 13 9	Ton	East Coast ...	One pair of fish-plates = 27½ lbs.
46/6 2-5-95		Steel, four-holed 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	75	4 15 0	„	Oudh and Rohilkhand.	One pair of fish-plates = 32 lbs.
46/288 17-5-95		Steel, for new standard flat-footed rails with 4·2″ foot.	75	5 0 0	„	East Coast ...	One pair of fish-plates = 27½ lbs.
48/161 10-7-95		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	75	4 15 0	„	Mari-Attock, and Kotri-Rohri.	One pair of fish-plates = 32 lbs.
49/193 16-8-95	Plates, fish—*contd.*....	Steel, five-holed, 1′ 7½″ long for new standard flat-footed rails with 4·2″ foot.	75	5 0 0	„	East Coast ...	One pair of fish-plates = 27½ lbs.
49/202 17-8-95		Steel, four-holed, 1′ 9½″ long for new standard flat-footed rails with 4″ foot.	75	4 15 9	„	North-Western ...	One pair of fish-plates = 32 lbs.
53/122 12-12-95		Steel, four-holed, 1′ 9½″ long for new standard rails with 4·2″ foot.	75	5 14 0	„	Bezwada, Madras ...	One pair of fish-plates = 31½ lbs.
53/126 13-12-95		Steel, four-holed, 1′ 9½″ long for new standard rails with 4″ foot.	75	5 15 0	„	Mari-Attock, and Oudh and Rohilkhand.	One pair of fish-plates = 32 lbs.
53/148 13-12-95		Ditto ditto ditto ditto	75	5 15 0	„	North-Western ...	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS.—contd.

5′ 6″ Gauge.

Contracted for in 1895.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
46/225	16-5-95	Plates, fish—*concld.*	Steel, four oval holes for new pattern, steel flat-footed rails.	62	4 13 9	Ton	North-Western.	
53/148	13-12-95		Steel, for flat-footed rails	62	5 15 0	,,	,, ,,	One pair of plates, fish, =28¼ lbs.
44/125	12-3-95	Rails ...	Steel, flat-footed	100	3 9 3	Ton	Mushkaf-Bolan.	
52/187	13-3-95		Steel, flat-footed, 30 feet long with the usual proportion of shorter lengths.	100	4 14 6	,,	,, ,,	
42/148	16-1-95		Steel, new standard, flat-footed, with 4″ foot in 30 feet lengths, with two holes at each end.	75	3 10 0	,,	Oudh and Rohilkhand.	
44/177	16-3-95		Steel, new standard, flat-footed with 4·2″ foot, in 30 feet lengths only.	75	3 9 3	,,	East Coast.	
46/224	16-5-95		Steel, new standard, flat-footed with 4·2″ foot, in assorted lengths.	75	3 9 6	,,	,,	
48/160	10-7-95		Steel, new standard, flat-footed, with 4″ foot.	75	3 8 8	,,	Kotri-Rohri and Mari-Attock.	
49/168	14-8-95		Steel, new standard flat-footed, with 4·2″ foot, in 30 feet lengths only.	75	3 11 6	,,	East Coast.	
49/203	17-8-95		Steel, new standard, flat-footed, with 4″ foot in assorted lengths.	75	3 11 3	,,	North-Western.	
52/1	1-11-95		Steel, new standard, flat-footed, with 4·2″ foot, but with only 4 bolt-holes.	75	4 13 9	,,	Bezwada-Madras.	
52/1	1-11-95		Steel, new standard, flat-footed, with 4″ foot, but with 2 holes at each end, in assorted lengths.	75	4 13 9	,,	Mari-Attock.	
52/2	1-11-95		Steel, new standard, flat-footed, with 4·2″ foot, but with only 4 bolt-holes.	75	4 14 3	,,	Bezwada-Madras.	
53/124	13-12-95		Steel, new standard, flat-footed, with 2 holes, at each end, in assorted lengths.	75	4 14 0	,,	Oudh and Rohilkhand, and North-Western.	
53/125	13-12-95		Steel, flat-footed, new standard, with 4″ foot.	75	4 13 9	,,		
46/229	16-5-95		Steel, new standard, bull-headed, in assorted lengths.	73	3 10 0	,,	North-Western.	
53/127	13-12-95		Steel, new standard, bull-headed, in assorted lengths.	73	4 14 0	,,		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ Gauge.

Contracted for in 1895.

Contract number and date.		Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
				lbs.	£ s. d.			
44/135	12-3-95	Sleepers.	Transverse, steel, with corrugated clips, stamped steel distance pieces, and steel keys.	100	5 1 6	Ton	Mushkaf-Bolan ...	One sleeper = 135 lbs., distance pieces 2·3 lb. per pair, and keys 10″ long, 3·02 per pair.
52/160	14-11-95		Transverse, steel, with corrugated clips, wrough iron or stamped steel distance pieces and steel keys.	100	5 7 6	,,		
48/38	1-7-95		Cast-iron pot, complete, with fastenings for new standard flat-footed rails with 4″ foot.	75	3 4 0	,,	North-Western ...	Weight with fastenings, complete—239·054 lbs.
53/180	18-12-95		Cast-iron pot sleepers, complete, with fastenings for new standard flat-footed rails, with 4″ foot (Indian Midland pattern).	75	3 9 6	,,		
53/96	10-12-95		Cast-iron plates for Denham Olphert's double headed steel rails.	73	3 9 6	,,	Eastern Bengal.	
51/38	3-10-95	Sleepers—*contd.*	Cast-iron pot, complete, with fastenings for new standard bull-headed rails.	73	3 12 6	Ton	North-Western ...	Weight with fastening, complete=223·241 lbs.
48/159	10-9-95		Creosoted (Baltic) red pine 8 feet 11 inches long 10 inches wide, and 5 inches thick. ...	75	0 3 1¼	Each	Kotri-Rohri.	
			Spare parts of—					
52/160	14-11-95		Distance pieces, steel keys	100	12 10 0	Ton		
48/38	1-7-95		Cast-iron clips	75	5 0 0	Each	Mushkaf-Bolan. ...	Weight 1·8125 lbs. each.
			Wrought-iron cotters		13 10 0	,,		,, ·5 ,, ,,
			,, gibs		13 10 0	,,		,, ·1875 ,, ,,
			,, keys		13 0 0	,,		,, 1·0940 ,, ,,
			,, tiebars		5 15 0	,,		,, 31·8660 ,, ,,
53/180	18-12-95		Cast-iron clips	75	5 5 0	,,	North-Western.	
			Wrought-iron cotters		14 2 6	,,		
			,, gibs		14 2 6	,,		
			,, keys		13 15 0	,,		
			,, tiebars		6 2 6	,,		
			Fittings for, (Denham Olphert's) for double headed rails.					
46/82	7-5-95		Wrought-iron tie bars	73	5 5 0	,,	Eastern Bengal.	Weight 22·96 lbs. each.
			,, Cotters		13 0 0	,,		,, 1·68 lbs. ,,
			,, Split keys		13 0 0	,,		,, ·31 lbs. ,,

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
51/38, 8-10-95	Sleepers—*concld.*	Wrought-iron tiebars	73	6 7 6	Each.	North-Western ...	Weight—31·866 lbs. each.
		„ gibs		14 2 6	„		„ ·1875 „ „
50/203, 19-9-95		„ cotters		14 2 6	„		„ ·5 „ „
		Keys for old standard flat-footed rails with 4″ foot.	75	11 7 6	„	Oudh and Rohilkhand	8¼″ long.
46/226, 16-5-95	Spikes, dog ...	Wrought-iron, 5″ long, underhead, and ⅝″ square, for new standard flat-footed steel rails with 4″ and 4·2″ foot.	75	10 17 6	Ton	North-Western.	To weigh $\frac{7}{10}$ lb. each.
48/158, 10-7-95		Ditto ditto ...	75	10 17 6	„	Kotri-Rohri and Mari-Attock.	
49/255, 1-11-95		Ditto ditto ...	75	11 0 0	„	East Coast.	
50/20, 4-9-95		Ditto ditto ...	75	11 0 0	Ton	Oudh and Rohilkhand.	Metre gauge connection railways.
52/4, 22-8-95		Ditto ditto ...	75	11 2 6	„	Bezwada-Madras.	
52/4, 1-11-95	Spikes dog—*concld.*	Ditto ditto ...	75	11 2 6	„	Mari-Attok.	
53/123, 12-12-95		Ditto ditto ...	75	11 7 6	„	North-Western.	
46/238, 17-5-95		Wrought-iron for chairs for new standard Bull-headed rails.	73	9 17 6	„	North-Western.	
		For steel flat-footed rails.					
44/226, 21-3-95		Three throw	100	20 13 0	Set.	Mushkaf-Bolan.	
52/389, 29-11-95		Ordinary 15 feet tongued rails		13 12 6	„		
		With 15 feet tongue rails		13 18 6	„		
		For new standard flat-footed rails with 4·2″ foot.					
49/253, 22-8-95	Switches (or points complete).	With 15 feet tongue rails	75	8 18 0	„	East Coast.	
		„ 12 „	75	8 3 6	„		
52/100, 7-11-95		15 feet tongue rails	75	9 11 0	„		
		12 „ „	75	8 16 0	„	Bezwada-Madras.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

5′ 6″ GAUGE.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
		For new standard flat-footed rails, with 4″ foot—					
44/42 — 4-8-95		Single throw, with 15 feet tongue rails and lever boxes.	75	9 15 0	Set.	North-Western.	
		Ditto 12 feet ditto	75	8 19 0	,,		
48/137 — 6-7-95		With 15 feet tongue rails	75	8 3 0	,,	Mari-Attock.	
		,, 12 feet ,, ...	75	7 8 0	,,	Kotri-Rohri.	
48/138 — 6-7-95	Switches or points (complete)—*contd.*	Single throw, with 15 feet tongue rails and lever boxes.	75	8 4 6	,,	Oudh and Rohilkhand.	
48/453 — 25-7-95		With 12 feet tongue rails and lever boxes ...	75	7 15 0	,,	Bhopal-Ujjain.	
49/198 — 16-8-95		Single throw, with 15 feet tongue rails and lever boxes.	75	8 10 6	,,	North-Western.	
		Single throw, with 12 feet tongue rails and lever boxes.	75	7 14 6	,,		
52/245 — 20-11-95		With 15 feet tongue rails and lever boxes ...	75	9 12 6	,,	Mari-Attock.	
53/75 — 7-12-95		Single throw, with 15 feet tongue rails ...	75	10 5 6	Set.	North-Western.	
		,, ,, 12 feet ,, ...	75	9 8 0	,,		
		For old standard flat-footed rails, with 4″ foot—					
45/168 — 13-4-95		With 15 feet tongue rails	75	9 0 0	,,	Mushkaf-Bolan.	
49/198 — 16-8-95		,, 12 feet ,, ...	75	8 6 0	,,	North-Western.	
		For rails, steel, double-headed—					
45/168 — 13-4-95		With 15 feet tongue rails	75	8 7 6	,,	Mushkaf-Bolan.	
52/389 — 29-11-95		,, 15 feet ,, ...	75	9 13 6	,,	Ditto.	
	Switches or points (complete)—*concld.*						
		For new standard, bull-headed stock rails, with 4″ foot—					
49/198 — 16-8-95		Single throw, with 15 feet tongue rails ...	73	10 6 6	,,	North-Western.	
		,, ,, 12 feet ,, ...		9 10 6	,,		
		Spare parts of—					
45/168 — 13-4-95		Tongue rails, 15 feet	75	2 2 6	Pair	Mushkaf-Bolan.	
53/75 — 7-12-95		Tongue rails, right and left, 15 feet ...	75	2 6 0	,,	North-Western.	
		Lever boxes, turn over, complete... ...		1 5 0	Each		

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—contd.

METRE AND NARROW GAUGES.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railways.	Remarks.
			lbs.	£ s. d.			
45/254 24-4-95	Bolts, fish ...	Steel, with nuts, and washers, for new standard steel rails.	50	14 4 0	Ton	Eastern Bengal ...	One bolt nut and washer = 15 ozs.
45/282 27-4-95		Steel, with nuts, and washers, for steel rails ..	50	14 2 6	,,	Oudh and Rohilkhand	One bolt nut and washer = 15 ozs. Linking up metre gauge railways.
48/34 1-7-95		Steel, with nuts, to suit steel rails 18 feet long, 20 lbs. Vignoles Section.	20	1 15 0	Cwt.	Warora Colliery ...	Special, only 2 cwt., indented for.
46/375 24-5-95		Steel, with nuts for 18-lb. rails	18	2 0 0	Cwt.	Umaria-Colliery ...	Special, only 2 cwt., indented for.
49/346 28-8-95		Steel, with nuts, for pit rails	18	38 0 0	Ton.	Umaria-Colliery.	
42/17 3-1-95	Crossings ...	Steel, built up, for new standard flat-footed rails— Angle, 1 in 12	50	5 4 6	Set	Oudh and Rohilkhand	Linking up metre gauge railways.
48/364 22-7-95		Steel, built up, with chairs, bolts and nuts, complete, for new standard rails, flat-footed— Angle, 1 in 8½	50	4 15 0	,,		
		,, 1 ,, 12	,,	5 4 6	,,		
49/116 7-8-95		Steel, built up for rails, flat-footed— Angle, 1 in. 8½	41¼	4 7 0	,,	Oodeypore-Chitore.	
		,, 1 ,, 6					
52/102 7-11-95		Steel, built up, complete, for rails, steel, flat-footed— Angle, 1 in. 8½	41¼	4 12 6	,,	Burma.	
46/4 2-5-95	Plates, fish ...	Steel, for new standard rails, steel flat-footed	50	5 0 0	Ton	Eastern Bengal ...	Weight of one pair of fish-plates = 28 lb.
45/103 10-4-95		Steel, special for connecting 50 lbs. and 41¼ lbs. rails, 1″ thick.	50 and 41¼	1 6 0	Each	Burma.	

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—*contd.*

METRE AND NARROW GAUGES.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
48/34 1-7-95	Plates, fish—*concld.*	Steel to suit steel rails 18 feet long 20 lbs. Vignoles Section.	20	*2 0 0	Cwt.	Warora Colliery ...	*Special rate.
46/374 and 49/345 24-5-95 and 28-8-95		Steel to suit pit rails 18 lbs.	18	5 13 0	Ton.	Umaria-Colliery.	
46/7 2-5-95	Rails ...	Steel, new standard, flat-footed, 30 feet each...	50	8 9 0	Ton.	Eastern Bengal.	
48/416 24-7-95		Steel, flat bottomed, in 18 feet lengths ...	20	5 3 6	,,	Warora Colliery.	
46/374 and 49/345 24-5-95 and 28-8-95	Rails ...	Steel pit	18	5 13 0	Ton	Umaria-Colliery.	
50/20 4-9-95	Spikes, dog ...	Wrought-iron, 4½″ under the head for rails, flat-footed.	50	11 10 0	Ton	Oudh and Rohilkhand	Linking up metre gauge railways.
48/315 19-7-95		Wrought-iron, 3⅝ inches long, over-all, about 7 to a lb.	20	14 0 0	,,	Warora Colliery.	
49/346 28-8-95		Wrought-iron, 3″ × ⅝″	18	16 0 0	,,	Umaria-Colliery.	
51/307 29-10-95		Wrought-iron, ⅜″ for 18 lb. rails, 3½″ long for use on timber sleepers.	18	0 18 0	Cwt.	Jorhat.	
		For new standard flat-footed rails—					
42/17 3-1-95 and 48/364 22-7-95	Swtiches (or points complete) ...	With 12′ tongue rails and lever boxes ...	50	6 13 6	Set.	Oudh and Rohilkhand	Linking up metre gauge railways.

CLASS OF STORES D.—PERMANENT-WAY MATERIALS—contd.

METRE AND NARROW GAUGES.

Contracted for in 1895.

Contract number and date.	Articles.	Details.	Weight per yard of rails.	Rate—Free on board. Amount.	Rate—Free on board. Unit.	For what railway.	Remarks.
			lbs.	£ s. d.			
		For steel rails—					
45/91 9-4-95	Switches (or points complete)—*concld.*	Single throw with 12′ feet tongue rails and lever boxes	41¼	6 1 6	Set	Burma.	
49/116 7-8-95		Ditto. ditto. 12 feet ditto. ...	41¼	6 3 0	,,	Oodeypore-Chitor.	
		Ditto. ditto. 9 feet ditto. ...		5 15 6	,,		
52/102 7-11-95		Ditto. ditto. 12 feet ditto. ...		6 11 6	,,	Burma.	
50/65 4-9-95	Switches and Crossings.	2 Way	18	4 17 0	Each	Umaria-Colliery ...	Special.
		Right hand turnout		5 9 0	,,		
		Left hand turnout		5 9 0	,,		

Appendix A to the Rate List for Class D Stores for 1895.

Statement showing the cost of permanent-way material for one mile of line (single track).

WITH FLAT-FOOTED STEEL RAILS ON TRANSVERSE STEEL SLEEPERS.

Description of Permanent-way.	Quantity to be delivered per mile of single track.	Charges incurred in England. Cost free on board at port in England. Per ton of material.	Cost free on board at port in England. Per mile of single track.	Average sea freight calculated at 13s. 0d. per ton.	Insurance at one-half per cent. on prime cost *plus* sea freight.	Total English charges.	English charges converted to Indian currency at s. d. 1—1½=1Re.	Landing charges in India at Rs. 2 per ton.	Total cost delivered at port in India.	Remarks.
5′ 6″ Gauge.	Tons.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.	Rs.	Rs.	Rs.	
Rails, steel, 75 lbs. per yard, with four-holed fish-plates (new Indian State railway standard)—	117·86	4 14 0	553 18 10	76 12 2	3 3 1	633 14 1	11,061	226	11,297	
Fish-plates	5·34	5 15 0	30 14 1	3 9 5	0 3 5	34 6 11	600	11	611	
Fish bolts with nuts and washers	1·33	14 12 6	19 9 0	0 17 4	0 2 0	20 8 4	356	3	359	
Sleepers, steel, transverse, with keys and distance pieces ...	124·86	5 1 9*	733 11 1	81 3 2	4 1 6	818 15 9	14,292	250	14,542	* These are rates for 1894. None were received in 1895.
TOTAL ...	249·39	.....	1,337 13 0	162 2 1	7 10 0	1,507 5 1	26,309	500	26,809	
Rails, steel, 75 lbs. per yard (East Coast railway pattern)— ...	117·86	3 11 6	421 7 0	76 12 2	2 9 10	500 9 0	8,735	236	8,971	
Fish-plates	4·59	5 0 0	22 19 0	2 19 8	0 2 7	26 1 3	455	9	464	
Fish-bolts, with nuts and washers	1·66	14 2 6	23 8 11	1 1 7	0 2 5	24 12 11	430	4	434	
Sleepers, steel, transverse, with keys	122·94	5 0 0*	614 14 0	79 18 3	3 9 6	698 1 9	12,185	245	12,430	
TOTAL ...	247·05	.....	1,082 8 11	160 11 8	6 4 4	1,249 4 11	21,805	494	22,299	
Metre Gauge.										
Rails, steel, 50 lbs. per yard (State railway pattern)— ...	78·57	3 9 0	271 1 4	51 1 5	1 12 2	323 14 11	5,651	157	5,808	
Fish-plates	4·67	5 0 0	23 7 0	3 0 9	0 2 8	26 10 5	463	9	472	
Fish-bolts, with nuts and washers	0·65	14 4 0	9 11 1	0 8 5	0 1 0	10 0 6	193	2	195	
Sleepers, steel, transverse, with keys	68·15	5 10 0†	374 16 6	44 5 11	2 1 11	421 4 4	7,352	136	7,488	
TOTAL ...	152·04	.....	678 15 11	98 16 6	3 17 9	781 10 2	13,659	304	13,963	† These are rates for 1893. None were received in 1894 and 1895.
Rails, steel, 41¼ lbs. per yard (State railway pattern)— ...	64·82	3 10 6*	228 9 10	42 2 8	1 7 1	271 19 7	4,747	130	4,877	
Fish-plates	1·52	5 10 6*	8 8 0	0 19 9	0 1 0	9 8 9	165	3	168	
Fish-bolts, with nuts and washers	0·65	15 0 0*	9 15 0	0 8 5	0 1 0	10 4 5	179	1	180	
Sleepers, steel, transverse, with keys	62·79	5 10 0†	345 6 11	40 16 3	1 18 7	388 1 9	6,774	126	6,900	
TOTAL ...	129·78	.....	591 19 9	84 7 1	3 7 8	679 14 6	11,865	260	12,125	

Appendix B to the Rate List for Class D Stores for the year 1895.

Statement showing the carriage of one mile of Permanent-way material complete for one hundred miles of distance.

TYPE OF PERMANENT-WAY (ENGLISH MATERIAL).	Weight for one mile of single track.	STATE RAILWAYS AND EAST INDIAN RAILWAY.		* Great Indian Peninsula Railway @ 4·08 pies per ton per mile.	Bombay, Baroda and Central India Railway @ 5·44 pies per ton per mile.	Rajputana-Malwa Railway. @ 5·44 pies per ton per mile.	REMARKS.
		For first 400 miles 4·08 pies per ton per mile.	For distances in excess of 400 miles @ 2·72 pies per ton per mile.				
	Tons.	Rs.	Rs.	Rs.	Rs.	Rs.	
New Indian State Railway standard 75 lbs. with 4″ foot (5′ 6″ gauge).	249·37	529·9	353·3	529·9	706·6	706·6	
East Coast Railway Pattern 75 lbs. with 4·2″ foot (5′ 6″ gauge)	246·82	524·5	349·9	524·5	699·3	699·3	
Indian State Railway Pattern 50 lbs. (metre gauge) ...	152·04	323·1	215·4	323·1	430·8	430·8	
Indian State Railway Pattern 41¼ lbs. (metre gauge) ...	129·78	275·8	183·9	275·8	367·7	367·7	

N.B.—Terminal charges are not included in the mileage rates for carriage, as it is understood that the material is loaded and unloaded by the owners.

The rates given here for the Great Indian Peninsula Railway are applicable up to 400 miles of distance only.

Consignments of 190 maunds and over are carried at the following special rates over the Bombay, Baroda and Central India Railway and Rajputana-Malwa Railway.

From 1 to 100 miles ... ... 0·35 pies
,, 101 to 200 ,, ... 0·25 ,,
,, 201 to 400 ,, ... 0·15 ,,
Over 400 ,, ... 0·10 ,,

} per maund per mile, excluding terminals.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma and Assam, Public Works Department.
The Secretaries to the Residents at Hyderabad and in Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana and Central India, and Baluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Director General of Military Works.
The Chief Engineer, Kashmir.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow, and Assam.

Copy forwarded to the Local Governments and Administrations, and to the officers noted in the margin, for information, with the intimation that all Railway Administrations have been supplied with copies direct.

T. GRACEY, Colonel, R.E.,
Director General of Railways.

To

The

No. 2189 W dated 29 July 1896
Of even No.

Communicated to Offrs of the P. W. Dept.
(Sd) D. M. C

Ch. Engr &
Supdg Engrs
C.A to Govt
Exam P.W Accounts.

G. C. Press, Simla.—No. 628 P. W. D.—25·6·96.—844.

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